

ABSTRACT

A document counterfeit protection mechanism is provided. The counterfeit protection mechanism provides a counterfeit protection image, providing an optical encoding function for encoding the counterfeit protection image and providing an optical curve body and a base beneath the optical curve body. The base and the optical curve body are monolithically formed together, for having the encoded counterfeit protection image distributed on the base, and an optical decoding function incorporating with the optical curve body is provided for decoding the encoded counterfeit protection image on the base. The optical decoding function is an inverse function of the optical encoding function.